

Application Serial No. 9/902,340
Reply to Office Action of January 5, 2004

PATENT
Docket No. CIJ-2592

Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (currently amended) An optical data recording medium, comprising:
 - a light transmittable plastic substrate; and
 - a recording layer formed on said plastic substrate and containing hydrogenated amorphous carbon;
 - wherein said hydrogenated amorphous material contains 5 to 60 atomic percent hydrogen;
 - wherein said recording layer of said hydrogenated amorphous carbon decomposes and releases hydrogen at a temperature greater than 300°C, whereas said plastic substrate is softened at a temperature in a range of from 80°C to 300°C so as to permit formation of recesses in said plastic substrate as a result of the hydrogen released by said hydrogenated amorphous carbon; and
 - wherein said recording layer is formed on said plastic substrate via plasma assisted chemical vapor deposition techniques by decomposition of a hydrocarbon with a pressure of 20 to 400 milli-Torrs and a substrate bias voltage in a range of from 250 to 550 volts.
- 2-5. (Canceled)
6. (Original) The optical data recording medium of Claim 1, wherein said

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recording layer has a thickness in a range of from about 30 nm to 2500 nm.

7. (Original) The optical data recording medium of Claim 1, wherein said plastic substrate is made from a resin material selected from a group consisting of acrylic resins, polycarbonate resins, epoxy resins, and polyolefin resins.

8. (Canceled)

9. (Original) The optical data recording medium of Claim 1, further comprising a reflective layer formed on said recording layer such that said optical data recording medium has a reflectivity greater than 40% in response to a wavelength of from 300 to 900 nm.

10-14. (Canceled)